AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of Claims:

1.   (Currently Amended) A communication network having a bus <u>having a first line and a second line</u> and ~~at least one device~~ <u>a plurality of devices connected to the bus</u>, the communication network comprising:

a switch operably connected to the bus and ~~the~~ at least one <u>of the plurality of devices</u>, ~~device~~ the switch being responsive to the bus to generate a terminate enable;

a connector operably connecting the at least one device to the bus; and,

a terminal resistor operably connected to the switch, wherein the switch inserts the terminal resistor ~~onto~~ <u>between the first line and the second line of</u> the bus in response to the terminate enable <u>to electrically terminate a new end of the network</u>.

2.   (Currently Amended) The communication network of claim 1 wherein the network is ~~CAN~~ <u>Controller Area Network</u>.

3.   (Currently Amended) The communication network of claim 1 wherein the network is ~~CAN~~ <u>Controller Area Network</u> open.

4.   (Original) The communication network of claim 1 wherein the bus is a serial type bus.

5.   (Original) The communication network of claim 1 wherein the bus is a loop.

6.   (Original) The communication network of claim 1 wherein the switch is electronic.

7.   (Original) The communication network of claim 1 wherein the bus is Ethernet 10Base-2.

8.   (Original) The communication network of claim 1 wherein the bus is Ethernet 10Base-5.

9.   (Currently Amended) The communication network of claim 1 wherein the bus supports ~~CAN~~ <u>Controller Area Network</u> communication.

10.   (Original) The communication network of claim 1 wherein the bus is ModbusPlus.

11.   (Original) The communication network of claim 1 wherein the bus is Arcnet.

12.   (Original) The communication network of claim 1 wherein the bus is RS485.

13.   (Original) The communication network of claim 1 wherein the value of the terminal resistor is equal to the value of the characteristic impedance of the network.

14.   (Currently Amended) A method of minimizing communication signal disruptions in a communication network resulting from the removal of a portion of the communication network, the method comprising the steps of:

providing a switch operably connected to a communication bus having a first line and a second line.

sensing a voltage signal on the communication bus;

generating a terminate enable responsive to the voltage signal; and,

inserting with the switch a terminal resistor onto the communication bus between the first line and the second line in response to the terminate enable to electrically terminate a new end of the network.

15.   (Currently Amended) The method of claim 14 wherein the network is ~~CAN~~ Controller Area Network.

16.   (Currently Amended) The method of claim 14 wherein the network is ~~CAN~~ Controller Area Network open.

17.   (Original) The method of claim 14 wherein the bus is Ethernet 10Base-2.

18.   (Original) The method of claim 14 wherein the bus is Ethernet 10Base-5.

19.   (Currently Amended) The method of claim 14 wherein the bus supports ~~CAN~~ Controller Area Network communication.

20.   (Original) The method of claim 14 wherein the bus is Arcnet.

21.   (Original) The method of claim 14 wherein the bus is ModbusPlus.

22.   (Original) The method of claim 14 wherein the bus is RS485.

23.   (Original) The method of claim 14, further comprising:

selecting a value for the terminal resistor equivalent to properly match the characteristic impedance of the network.

24.   (Original) The method of claim 23 wherein the value of the terminal resistor selected is 120 ohms.

25.   (Currently Amended) A system ~~of~~ for minimizing signal disruptions in a communication network, the system comprising:

an ethernet communication bus having a first line and a second line;

a connector operably connecting a first device to the communication bus;

an electronic switch operably connected to the communication bus and the first device, the switch being responsive to the bus to generate a terminate enable; and,

a terminal resistor operably connected to the switch, wherein the switch inserts the terminal resistor onto the communication bus <u>between the first line and the second line</u> in response to the terminate enable <u>to electronically terminate a new end of the network</u>.

26.   (Currently Amended) The system of claim 25 wherein the network is ~~CAN~~ <u>Controller Area Network</u>.

27.   (Currently Amended) The system of claim 25 wherein the network is ~~CAN~~ <u>Controller Area Network</u> open.

28.   (Original) The system of claim 25 wherein the ethernet bus is Ethernet 10Base-2.

29.   (Original) The system of claim 25 wherein the ethernet bus is Ethernet 10Base-5.

30.   (Original) The system of claim 25 wherein the value of the terminal resistor is 120 ohms.

31.   (Currently Amended) The system of claim 25 wherein the bus supports ~~CAN~~ <u>Controller Area Network</u> communication.

32.   (Original) The system of claim 25 wherein the bus is ModbusPlus.